

**U.S. EPA REGION VIII
TECHNICAL ENFORCEMENT PROGRAM
RCRA COMPLIANCE EVALUATION INSPECTION REPORT**

Facility: Frontier Refining, Inc.
2700 East 5th Street
Cheyenne, WY 82007

Facility Contact: David Weeks
Senior Project Engineer

EPA I.D. No.: WYD051843613

Notification Status: LQG

Inspection Type: Corrective Action Compliance Inspection
For Pond 2 Clean-Out

Date: October 17, 2011

Time In: 3:00 p.m.

Time Out: 3:51 p.m.

**EPA
Representatives:** Linda Jacobson, EPA Inspector
Philippe Pierre-Louis, EPA Inspector

**Facility
Representatives:** David Weeks, Senior Project Engineer

Background:

Frontier Refining, Inc. operates a petroleum refinery in Cheyenne, Wyoming that produces asphalt, fuels, coke, and liquefied petroleum gas. On May 27, 2010, Frontier and EPA entered into a Consent Agreement to address the closure of Pond 2 surface impoundment. This inspection was prearranged and scheduled with facility representatives as a follow-up to observe the progress in waste removal, cleaning, and closure activities for the Pond 2 waste impoundment.

The EPA RCRA inspectors, Ms. Jacobson and Mr. Pierre-Louis, arrived at the facility at 3:00 pm and were greeted by Mr. David Weeks with Frontier's environmental department. Ms. Jacobson presented her credentials, explained the scope of the inspection, and completed the Notice of Inspection (NOI) Form. Entry was gained by consent as noted on the NOI form.

Physical Site Inspection

Mr. Weeks updated the inspectors on the progress of the Pond 2 work as they drove to the site of three pads which were being constructed for storage of clay and dirt. One pad was to be used for storage of contaminated clay, potentially a hazardous waste, the second for other clay material, and the third for dirt to be used for reconstruction of the Pond 2 footprint to serve as the tank base. These pads were to be lined with a semi-permeable liner.

The inspectors and facility representative arrived at the former Pond 2. Only the concrete apron on the north end was remaining. The facility had rinsed off the liner and removed the rinse water and other ponded water. Mr. Weeks stated that the existing synthetic liner will be cut up and put into roll-offs for proper disposal.

The inlet lines had been plugged. A continuing discharge, possibly groundwater, was still daylighting into the pond. The refinery was attempting to identify this water source and seal or remediate it.

Ms. Jacobson observed six drums of hazardous wastes removed from Pond 2 which were dated October 17, 2011 and labeled as "Pond 2 Sludge PPE Only".

The refinery had placed a 1000 gpm pump ahead of the API to pump water to Tank 121.

Closing Conference:

Ms. Jacobson completed the NOI form and held a short closing conference. No concerns were noted for the scope of the inspection conducted. Ms. Jacobson contacted Mr. Weeks with concern that a semi-permeable liner should not be used in the concrete pad used for the contaminated clay material which was potentially hazardous waste. He clarified that he had misspoken and that the liner would not allow seepage into the soils beneath the pad.

Prepared By:

Linda Jacobson
Linda Jacobson, EPA Inspector

November 16, 2011
Date

Attachments:

Attachment 1: Notice of Inspection Form

Attachment 2: Photographs and Photolog

ATTACHMENT 1
NOTICE OF INSPECTION FORM

U.S. ENVIRONMENTAL PROTECTION AGENCY (REGION VIII)

1595 Wynkoop Street, Denver, CO 80202

NOTICE OF INSPECTION

- ☒ Resource Conservation and Recovery Act (RCRA) Public Law 94-580, as amended.
☐ Toxic Substance Control Act (TSCA) Public Law 94-469, as amended.
☐ Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Public Law 92-516, as amended.

| | | | | |
|------------------|---------------------|------------|---|---|
| Date 10/17/11 | Inspector # | Daily Seq. | Hour In: 3:00 pm Out: 3:51 pm | Facility name Frontier Refining, LLC |
| Fac. Func. | Invest. Type CAO | Reason | RCRA: Gen <input checked="" type="checkbox"/> Transp. () TSD () | Street WY D051843 613 2700 East 5 th St. |

| | | | | |
|---|----------------------------|------------------|-------------|--------------|
| Facility Representative(s) David Weeks | Title Projects Engineer | City Cheyenne | State WY | Zip 82003 |
| Phone # (307) 771-8827 | | PO Box 1588 | | |

Reason for Inspection: ☒ Entry by Consent: ☒ Warrant: ()
 To determine the extent of compliance with the above referenced law, which may require the collection of samples, documents, and/or photographs.
 Other (Specify) _____
 Violations of above referenced law are suspected from information or complaint. Yes () No ()

| Samples, Documents, and /or Photos collected (describe below) | Medium | Date to Lab |
|---|--------|-------------|
| 1. 12 photos | | |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| 6. | | |

Samples requested and received by facility: ☒ Yes () No
 If yes: () Duplicate. () Split. () Photos (To be received when processed.)

This inspection has revealed the following probably violations of EPA laws or regulations.

No violations observed for scope of inspection conducted

The facts established by this inspection will be reviewed by personnel in the EPA Regional Office.
 A final determination of your facility's compliance with EPA regulations will be made as a result of this review.
 The review may reveal additional violations.

Receipt of the Notice of Inspection is acknowledged.

David Weeks
 Signature of facility representative

Linda Jansen
 Signature of Lead Inspector

Assisting Inspectors (EPA/Tribe/State)

ATTACHMENT 2
PHOTOLOG AND PHOTOGRAPHS

PHOTOLOG FOR FRONTIER REFINING INSPECTION

| PHOTO | SUBJECT | DATE |
|-------|---|------------------|
| 1 | One of Three Storage Pads Being Constructed Of Pond 2 Spoils | October 17, 2011 |
| 2 | Storage Pad for Pond 2 Excavated Materials | October 17, 2011 |
| 3 | Pond 2 with Portion of Concrete Apron Removed | October 17, 2011 |
| 4 | Inlet Piping Plugged for Liner Removal Work | October 17, 2011 |
| 5 | Areas of Poned Water to Be Removed by Vacuum Truck | October 17, 2011 |
| 6 | Continuing Inflow of Water, Possibly Groundwater | October 17, 2011 |
| 7 | Location of Water Seep | October 17, 2011 |
| 8 | Pond 2 Prior to Synthetic Liner Being Pulled | October 17, 2011 |
| 9 | Water Flow into Pond 2, Possibly Groundwater | October 17, 2011 |
| 10 | Status of Pond 2 | October 17, 2011 |
| 11 | Pond 2 Liner to Be Removed | October 17, 2011 |
| 12 | Water Seep, Clear Constant Stream of Water Uncovered | October 17, 2011 |

Photo: 1

Facility: Frontier Refining

**Subject: One of Three Storage Pads
Being Constructed for Pond 2 Spoils**

Photographer: Linda Jacobson

Date: October 17, 2011



Photo: 2

Facility: Frontier Refining

**Subject: Storage Pad for Pond 2
Excavated Materials**

Photographer: Linda Jacobson

Date: October 17, 2011



Photo: 3
Facility: Frontier Refining
Subject: Pond 2 with Portion of
Concrete Apron Removed
Photographer: Linda Jacobson
Date: October 17, 2011



Photo: 4
Facility: Frontier Refining
Subject: Inlet Piping Plugged for
Liner Removal Work
Photographer: Linda Jacobson
Date: October 17, 2011



Photo: 5

Facility: Frontier Refining
Subject: Areas of Ponded Water
to Be Removed by Vacuum Truck
Photographer: Linda Jacobson
Date: October 17, 2011



Photo: 6

Facility: Frontier Refining
Subject: Continuing Inflow of Water,
Possibly Groundwater
Photographer: Linda Jacobson
Date: October 17, 2011



Photo: 7

Facility: Frontier Refining

Subject: Location of Water Seep

Photographer: Linda Jacobson

Date: October 17, 2011



Photo: 8

Facility: Frontier Refining

**Subject: Pond 2 Prior to
Synthetic Liner Being Pulled**

Photographer: Linda Jacobson

Date: October 17, 2011



Photo: 9
Facility: Frontier Refining
Subject: Water Flow into Pond 2,
Possibly Groundwater
Photographer: Linda Jacobson
Date: October 17, 2011



Photo: 10
Facility: Frontier Refining
Subject: Status of Pond 2
Photographer: Linda Jacobson
Date: October 17, 2011



Photo: 11
Facility: Frontier Refining
Subject: Pond 2 Liner to Be Removed
Photographer: Linda Jacobson
Date: October 17, 2011



Photo: 12
Facility: Frontier Refining
Subject: Water Seep, Clear Constant
Stream of Water Uncovered
Photographer: Linda Jacobson
Date: October 17, 2011

